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# MAINTENANCE DREDGING

WILMINGTON HARBOR CHRISTINA RIVER, DELAWARE

IFB W912BU-16-B-0008

LOCATION OF WORK

Township

WILMINGTON HARBOR SOUTH DISPOSAL AREA

Wilmington

Carneys Point Township

OCITIES Park

LOCATION MAP

| DRAWING INDEX |  |  |  |  |  |
|---------------|--|--|--|--|--|
| SHEET NUMBER  | R DESCRIPTION                                |  |  |  |  |
| CS-101        | COVER SHEET                                  |  |  |  |  |
| C-001         | GENERAL INFORMATION SHEET                    |  |  |  |  |
| C-101         | PLAN -GENERAL                                |  |  |  |  |
| C-102         | PLAN - STA. 0+000 TO STA. 6+236              |  |  |  |  |
| C-301         | WILMINGTON HARBOR CROSS SECTIONS             |  |  |  |  |
| C-302         | WILMINGTON HARBOR CROSS SECTIONS             |  |  |  |  |
| C-401         | PLAN - WILMINGTON HARBOR SOUTH DISPOSAL AREA |  |  |  |  |

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SUBMITTED:

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JOSE R. ALVAREZ, P.E. CHIEF, ENGINEERING BRANCH APPROVED:

APPROVED:

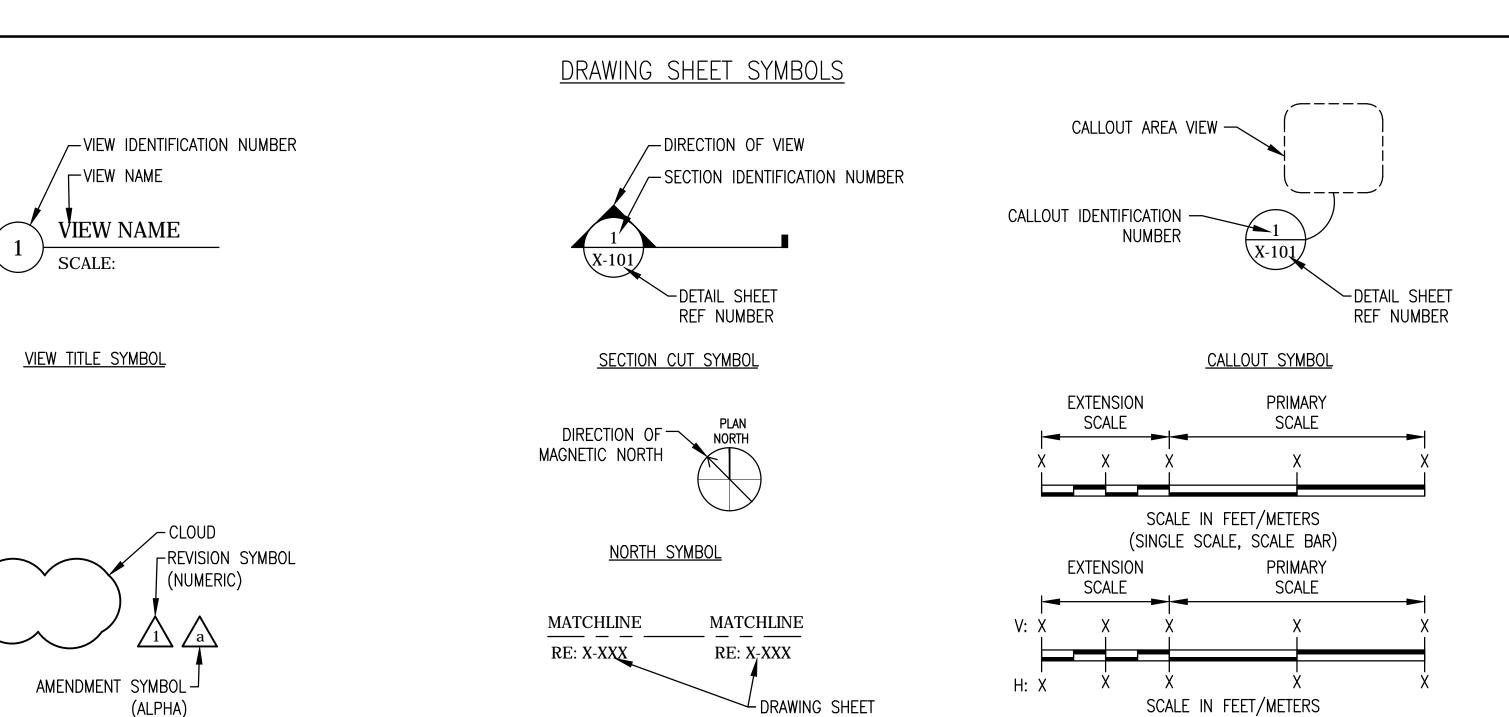
PETER M. TRANCHIK, P.E.

CHIEF, ENGINEERING AND CONSTRUCTION DIVISION

SHEET NUMBER

CS-101

# SYMBOLS, ABBREVIATIONS AND GENERAL NOTES



MATCHING REFERNECE

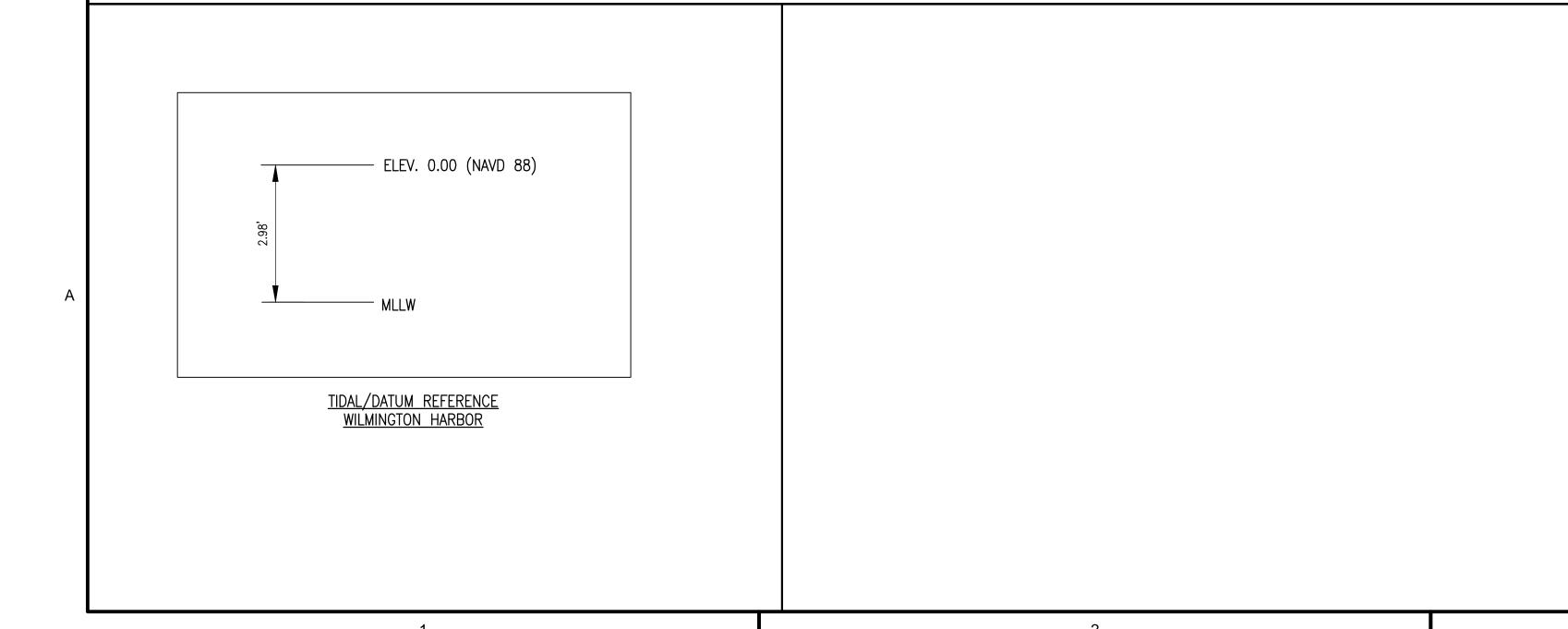
(HORIZONTAL/VERTICAL SCALE BAR)

GRAPHIC BAR SCALE SYMBOLS

| ABBREVIATIONS |                                       |       |                                |        |                          |  |  |
|---------------|---------------------------------------|-------|--------------------------------|--------|--------------------------|--|--|
| ABBRV         | DESCRIPTION                           | ABBRV | DESCRIPTION                    | ABBRV  | DESCRIPTION              |  |  |
| AD            | AREA DRAIN                            | FF    | FINISHED FLOOR                 | PSI    | POUNDS PER SQUARE INCH   |  |  |
| ADDL          | ADDITIONAL                            | FIN   | FINISH                         | PVI    | POST INDICATOR VALVE     |  |  |
| AFF           | ABOVE FINISHED FLOOR                  | FL    | FLOOR                          | RAD    | RADIUS                   |  |  |
| 3D            | BOARD                                 | FM    | FORCE MAIN                     | REINF  | REINFORCEMENT            |  |  |
| BIT           | BITUMINOUS                            | FT    | FOOT, FEET                     | REM    | REMOVABLE                |  |  |
| 3L            | BASE LINE                             | FTG   | FOOTING                        | ROW    | RIGHT OF WAY             |  |  |
| BLDG          | BUILDING                              | G     | GROUND                         | S      | SOUTH                    |  |  |
| ВМ            | BEAM                                  | GOVT  | GOVERNMENT                     | SCH    | SCHEDULE                 |  |  |
| ВМР           | BEST MANAGEMENT PRACTICE              | GR    | GRADE                          | SECT   | SECTION                  |  |  |
| 30T           | BOTTOM                                | HORIZ | HORIZONTAL                     | SPEC   | SPECIFICATION            |  |  |
| BVCE          | BEGINNING OF VERTICAL CURVE ELEVATION | HS    | HIGH STRENGTH                  | SPRT   | SUPPORT                  |  |  |
| BVCS          | BEGINNING OF VERTICAL CURVE STATION   | HT    | HEIGHT                         | SQ     | SQUARE                   |  |  |
| CMU           | CONCRETE MASONRY UNIT                 | HVY   | HEAVY                          | SST    | STAINLESS STEEL          |  |  |
| 20            | CLEAN OUT                             | IN    | INCH                           | STA    | STATION                  |  |  |
| COL           | COLUMN                                | INSUL | INSULATION, INSULATED          | STD    | STANDARD                 |  |  |
| CONC          | CONCRETE                              | INT   | INTERIOR                       | STRUCT | STRUCTURAL               |  |  |
| CONSTR        | CONSTRUCTION                          | INV   | INVERT                         | SUSP   | SUSPENDED                |  |  |
| CONT          | CONTINUOUS                            | LL    | LIVE LOAD                      | SYS    | SYSTEM                   |  |  |
| CTRL          | CONTROL                               | LP    | LOW POINT                      | TEMP   | TEMPORARY                |  |  |
| CWL           | CONTRACTOR WORK LIMITS                | IT    | LIGHT                          | TD     | TRENCH DRAIN             |  |  |
| DET           | DETAIL                                | LVC   | LENGTH OF VERTICAL CURVE       | TDO    | TRENCH DRAIN OUTLET PIPE |  |  |
| DGA           | DENSE GRADED AGGREGATE                | JCT   | JUNCTION                       | TELE   | TELEPHONE                |  |  |
| DIA           | DIAMETER                              | MATL  | MATERIAL                       | TOPO   | TOPOGRAPHY               |  |  |
| DIM           | DIMENSION                             | MAX   | MAXIMUM                        | TYP    | TYPICAL                  |  |  |
| DL            | DEAD LOAD                             | MIN   | MINIMUM                        | UD     | UNDERDRAIN               |  |  |
| DWG           | DRAWING                               | MISC  | MISCELLANEOUS                  | UDO    | UNDERDRAIN OUTLET PIPE   |  |  |
|               | EAST                                  | N N   | NORTH                          | UE     | UNDERGROUND ELECTRIC     |  |  |
| <br>EA        | EACH                                  | NLT   | NOT LESS THAN                  | UGND   | UNDERGROUND              |  |  |
| ECM           | EROSION CONTROL MAT                   | NTS   | NOT TO SCALE                   | UNO    | UNLESS NOTED OTHERWISE   |  |  |
|               |                                       |       |                                |        |                          |  |  |
| <u> </u>      | EXPANSION JOINT                       | 00    | ORIGINAL CONSTRUCTION          | UOP    | UNDERDRAIN OUTLET PIPE   |  |  |
|               | ELEVATION                             | OD    | OUTSIDE DIAMETER               | UX0    | UNEXPLODED ORDNANCE      |  |  |
| ELEC          | ELECTRIC EDGE OF DAVEMENT             | OH    | OVERHEAD                       | VB     | VINYL BASE               |  |  |
| <u> </u>      | EDGE OF PAVEMENT                      | OPG   | OPENING                        | VC     | VERTICAL CURVE           |  |  |
| <u> </u>      | EDGE OF SHOULDER                      | OPP   | OPPOSITE CLIDVE                | VCT    | VINYL COMPOSITION TILE   |  |  |
| EQ.           | EQUAL                                 | PC    | POINT OF CURVE                 | VOL    | VOLUME                   |  |  |
| EQUIP         | EQUIPMENT                             | PD    | PAVEMENT DRAIN                 | VERT   | VERTICAL POOF            |  |  |
| EXH           | EXHAUST                               | PI    | POINT OF INFLECTION            | VTR    | VENT THROUGH ROOF        |  |  |
| XIST          | EXISTING                              | PI    | POINT OF INFLECTION            | W/     | WITH                     |  |  |
| XP            | EXPANSION, EXPOSED                    | PIV   | POINT OF VERTICAL INFLECTION   | W      | WEST                     |  |  |
| EXP_JT        | EXPANSION JOINT                       | POT   | POINT OF TANGENT               | WL     | WATER LEVEL              |  |  |
| EXT           | EXTERIOR                              | PMP   | PROBABLE MAXIMUM PRECIPITATION | WS     | WATER SURFACE            |  |  |
| FIG           | FIGURE SINGLE                         | PNL   | PANEL                          | W/O    | WITHOUT                  |  |  |
| FDTN          | FOUNDATION                            | PSF   | POUNDS PER SQUARE FOOT         |        |                          |  |  |

MATCHLINE SYMBOL

REVISION & AMENDMENT CLOUD AND SYMBOL



## DREDGING LEGEND CHANNEL CENTERLINE BUOY MARKERS APPROXIMATE LOCATION OF WORK APPROXIMATE BORDERS OF GOVERNMENT OWNED DISPOSAL AREAS TO BE USED IN CONTRACT BOTTOM SAMPLE LOCATION COORDINATE - NORTHING AND EASTING A.S. #1 ACCEPTANCE SECTION EXISTING LIGHTS SPOT ELEVATION EEF-3 EXISTING INCLINOMETER EXISTING PIEZOMETER EXISTING HORIZONTAL CONTROL POINT/BENCHMARK EXISTING SLUICE 0-0-0-0 EXISTING BULKHEAD EXISTING RAILROAD SOUNDING VALUE 35' MAJOR CONTOUR ----- ROAD CENTERLINE CROSS SECTION LEGEND REQUIRED DREDGING ALLOWABLE OVERDEPTH EXISTING BOTTOM

### **GENERAL NOTES:**

- HORIZONTAL REFERENCE NAD83, NEW JERSEY STATE PLANE, ZONE 2900.
   VERTICAL REFERENCE ALL DEPTHS SPECIFIED FOR DREDGING ARE REFERENCED TO
- MEAN LOWER LOW WATER (M.L.L.W). SEE DATUM REFERENCE ON THIS SHEET.
- 3. NOAA'S TIDAL EPOCH 1983-2001.

US Army Corps of Engineers ◎ Philadelphia District

